SAMSUNG

3 DVD MINI COMPONENT SYSTEM

DVD/VCD/CD/MP3-CD/CD-R/RW PLAYBACK
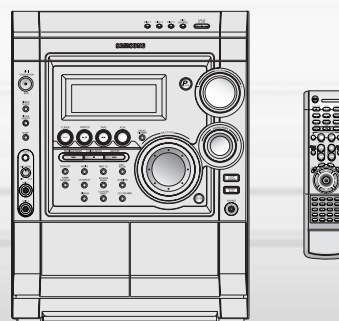
THIS APPLIANCE IS MANUFACTURED BY:

MAX-DS18500

Instruction Manual

SAMSUNG
ELECTRONICS

Safety Warnings

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUCT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT
PRODUCTO LASER CLASE 1

CAUTION
RISK OF ELECTRIC SHOCK.
DO NOT OPEN

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO
NOT REMOVE REAR COVER. NO USER
SERVICEABLE PARTS INSIDE. REFER SERVICING TO
QUALIFIED
SERVICE PERSONNEL.

CLASS 1 LASER PRODUCT

This Compact Disc player is classified
as a CLASS 1 LASER product.

(Saudi Arabian Standards Organisation)

THIS APPLIANCE IS FITTED WITH 220V SASO APPROVED PLUG.THE CUSTOMER IS
ENTITLED TO A FREE SASO APPROVED 127V PLUG FROM THE LOCAL DEALER.

Use of controls, adjustments or performance of procedures other
than those specified herein may result in hazardous radiation
exposure.

**CAUTION-INVISIBLE LASER RADIATION WHEN OPEN
AND INTERLOCKS DEFEATED, AVOID
EXPOSURE TO BEAM.**

This symbol indicates that dangerous voltage which
can cause electric shock is present inside this unit.

This symbol alerts you to important operating and
maintenance instructions accompanying the unit.

WARNING: To reduce the risk of fire or electric shock, do not
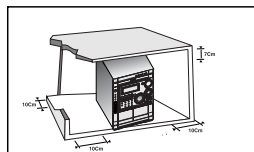expose this appliance to rain or moisture.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE
BLADE OF PLUG TO WIDE SLOT, FULLY
INSERT.

Precautions

Ensure that the AC power supply in your house complies with the identification sticker located on the back of your player. Install your player horizontally, on a suitable base (furniture), with enough space around it for ventilation (3~4inches). Make sure the ventilation slots are not covered. Do not stack anything on top of the player. Do not place the player on amplifiers or other equipment which may become hot. Before moving the player, ensure the disc tray is empty. This player is designed for continuous use. Switching off the DVD player to the stand-by mode does not disconnect the electrical supply. In order to disconnect the player completely from the power supply, remove the main plug from the wall outlet, especially when left unused for a long period of time.
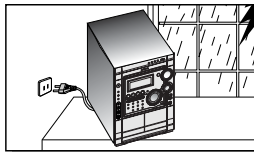

During thunderstorms, disconnect AC main plug from the
wall outlet.
Voltage peaks due to lightning could damage the unit.
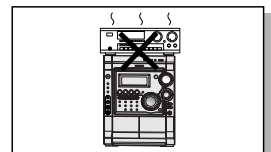
Do not expose the unit to direct sunlight or other heat
sources.
This could lead to overheating and malfunction of the unit.
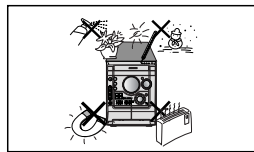
Protect the player from moisture(i.e. vases) , and excess
heat(e.g.fireplace) or equipment creating strong magnetic or electric
fields (i.e.speakers...). Disconnect the power cable from the AC supply if
the player malfunctions. Your player is not intended for industrial use.
Use of this product is for personal use only.
Condensation may occur if your player or disc have been stored in cold
temperatures.
If transporting the player during the winter, wait approximately 2 hours
until the unit has reached room temperature before using.
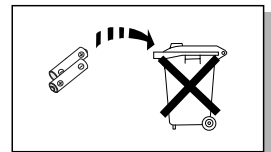
The battery used with this product contain chemicals that
are harmful to the environment.
Do not dispose of batteries in the general household trash.

1

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Features

Multi-Disc Playback & AM/FM Tuner, TAPE

The MAX-DS18500combines the convenience of multi-disc playback capability, including DVD-VEDIO, DVD-AUDIO,CD, MP3-CD, CD-R, CD-RW,VCD,DivX,JPEG and DVD-R/RW, with a sophisticated AM/FM tuner, TAPE, all in a single player.

TV Screen Saver Function

The MAX-DS18500 automatically brightens and darkens the brightness of the TV screen after 3 minutes in the stop mode.
The MAX-DS18500 automatically switches itself into the power saving mode after 20 minutes in the screen saver mode.

Power Saving Function

The MAX-DS18500 automatically shuts itself off after 20 minutes in the stop mode.

Customized TV Screen Display

The MAX-DS18500 allows you to select your favorite image during JPEG, VCD/DVD playback and set it as your background wallpaper.

DVD **(Digital Versatile Disc)** offers fantastic audio and video, thanks to Dolby Digital surround sound and MPEG-2 video compression technology. Now you can enjoy these realistic effects in the home, as if you were in a movie theater or concert hall.

DVD players and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.
The Region Number for this player is given on the rear panel of the player.
(Your DVD player will only play DVDs that are labeled with identical region codes.)

Copy Protection

- **Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.**
- This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.
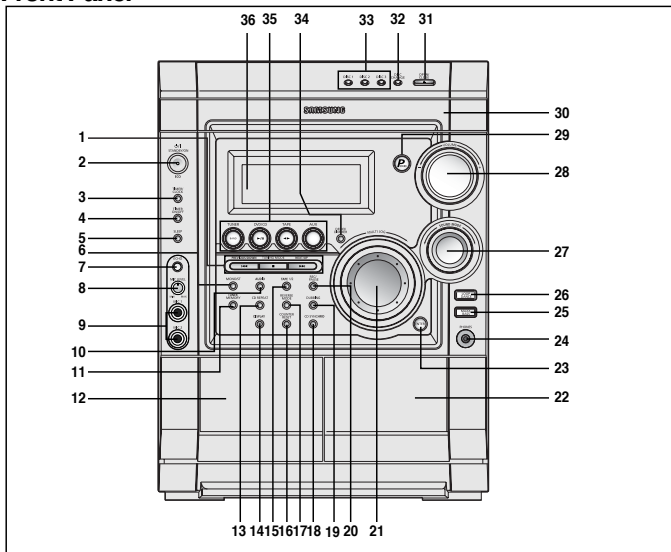
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Contents

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Description

—Front Panel—

1.	Search Function buttons
	Tuning Mode or Stop button
2.	STANDBY/ON/ECO
3.	Timer/Clock
4.	Timer On/Off
5.	Sleep
6.	FM Mono/Stereo
7.	Echo
8.	MIC Level
9.	MIC1,MIC2
10.	Audio
11.	Tuner Memory
12.	Cassette Deck 1
13.	CD Repeat
14.	Display
15.	Tape 1/2
16.	Tape Counter Reset
17.	Tape Reverse Mode
18.	CD Synchro Recording
19.	Tape Normal Speed Dubbing
20.	Record/Pause (PAL/NTSC)
21.	Multi Jog
22.	Cassette Deck 2
23.	Enter
24.	Headphone Jack Connector
25.	MAXX Bass
26.	Loop Dance
27.	Sound Mode
28.	Volume
29.	Power Sound
30.	Compact Disc Compartment
31.	Open/Close
32.	Disc Change
33.	Disc Selection buttons
34.	Demo/Dimmer
35.	Function Selection buttons
36.	Window Display

—Rear Panel—
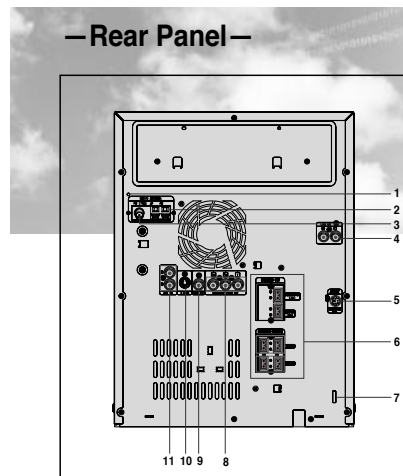
1. **SW Antenna Connector (Option)**

2. **AM Antenna Connectors**
3. **FM Antenna Connector**
4. **LINE OUT**
5. **Sub woofer Control Jack**
6. **5.1 Channel Speaker Output Terminals**

7. **Voltage Selector (Option)**
8. **Component Video Output Connectors**
   Connect a TV with component vide input jacks to these jacks.

9. **Video Output Connector**
   Connect the TV's video input jacks (VIDEO IN) to the VIDEO OUT connector.

10. **S-Video Output Connector**
    If the TV is equipped with an S-Video input connector (S-VIDEO IN), connect it to the player's S-Video output jack.

11. **AUX-In**

Accessories

Remote Control	Video Cable	Audio Cable
AM Antenna	FM Antenna	User's Manual

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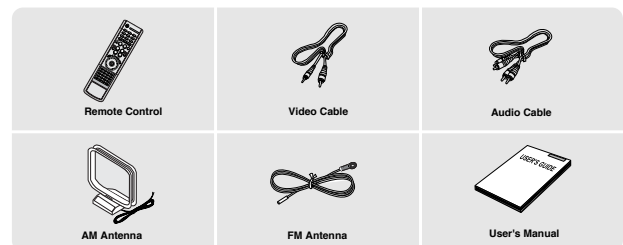
Description

—Remote Control—

POWER STANDBY/ON button
SLEEP button
OPEN/CLOSE button
DISC SKIP button
REPEAT button
TUNER button
TAPE PLAY button

PL II MODE button
VOLUME button
MENU button
MUTE button

Number(0~9) buttons

TIMER/CLOCK button
TIMER ON/OFF button
EZ VIEW, NTSC/PAL button

ZOOM button
DIMMER/DEMO button
SLOW,MONO/ST button
SUB TITLE button
REMAIN (TAPE 1/2)
AUX button

Play/Pause button   Stop button
Tuning Preset/CD/TAPE Skip button

PL II EFFECT button
TUNING button
INFO button
RETURN button

Direction/Enter button

TEST TONE button
SOUND EDIT button
TUNER MEMORY / P.SCAN button
DIGEST button
SLIDE MODE button
CANCEL button
LOGO button

Insert Remote Batteries

1 Remove the battery cover on the back of the remote by pressing down and sliding the cover in the direction of the arrow.

2 Insert two 1.5V AAA batteries, paying attention to the correct polarities (+ and –).

3 Replace the battery cover.

Caution **Follow these precautions to avoid leaking or cracking cells:**
- Place batteries in the remote control so they match the polarity:(+) to (+)and (–)to (–).
- Use the correct type of batteries.Batteries that look similar may differ in voltage.
- Always replace both batteries at the same time.
- Do not expose batteries to heat or flame.

Range of Operation of the Remote Control

The remote control can be used up to approximately 23 feet/7 meters in a straight line. It can also be operated at a horizontal angle of up to 30° from the remote control sensor.

To open the remote control cover, push the top of the cover, then slide downward.

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Connecting the Speakers

Before moving or installing the product, be sure to turn off the power and disconnect the power cord.
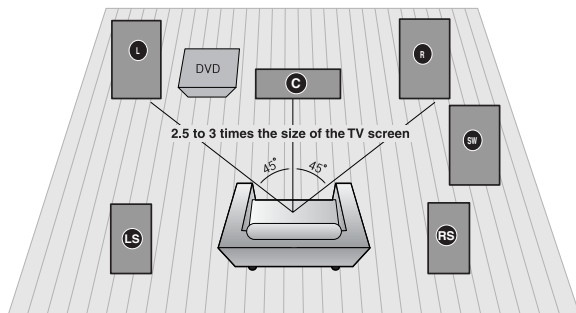
2.5 to 3 times the size of the TV screen

45° 45°

Position of the DVD Player

- Place it on a stand or cabinet shelf, or under the TV stand.

Front Speakers **L** **R**

- Place these speakers in front of your listening position, facing inwards (about 45°) toward you.
- Place the speakers so that their tweeters will be at the same height as your ear.
- Align the front face of the front speakers with the front face of the center speaker or place them slightly in front of the center speakers.

Center Speaker **C**

- It is best to install it at the same height as the front speakers.
- You can also install it directly over or under the TV.

Selecting the Listening Position

The listening position should be located about 2.5 to 3 times the distance of the TV's screen size away from the TV. Example: For 32" TVs 2~2.4m (6~8feet)
For 55" TVs 3.5~4m (11~13feet)

Rear Speakers **LS** **RS**

- Place these speakers behind your listening position.
- If there isn't enough room, place these speakers to face each other.
- Place them about 60 to 90cm (2 to 3feet) above your ear, facing slightly downward.

  ★ Unlike the front and center speakers, the rear speakers are used to handle mainly sound effects and sound will not come from them all the time.

Subwoofer **SW**

- The position of the subwoofer is not so critical. Place it anywhere you like.
- Usually, it is placed by a corner near the front speakers.

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Front Speaker (R)

Center Speaker

Front Speaker (L)

Subwoofer

Green

Violet

Gray

Blue

Red

White

RS

LS

Rear Speaker (R)

Rear Speaker (L)
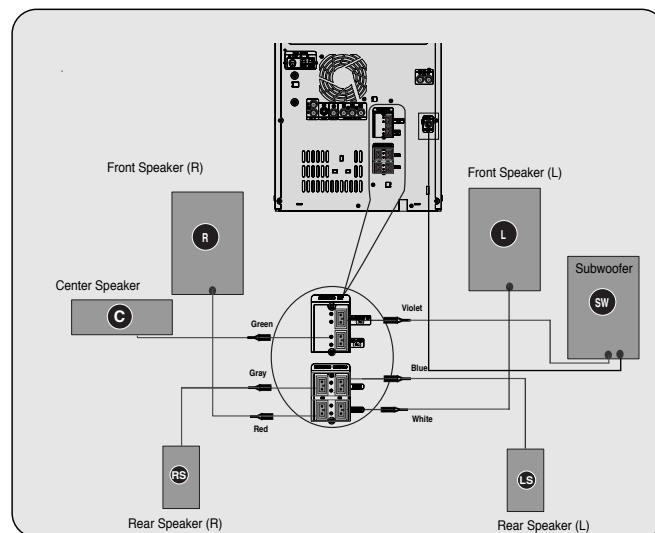
Back of the Main Unit

Connect the connecting jacks to the back of the DVD player.

- Make sure the colors of the speaker terminals match the colors of the connecting jacks.

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Connecting to a TV

Please be sure to turn off the power and unplug the power cord before moving or installing this unit.
Please choose one of three video connection methods.

Method 1 Using Video Out (Good Quality)

1 Connect Video Out on the player to Video In on your TV.
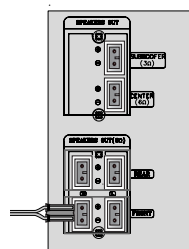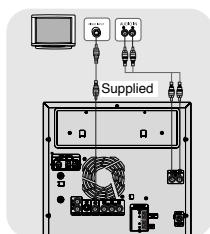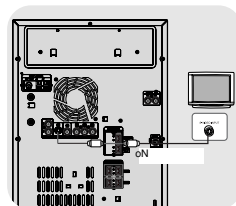
2 Press the TV/VIDEO button on the remote of TV control to set the TV to "VIDEO".

Supplied

Method 2 Using S-Video Out (Better Quality)

Use this method if your TV has an S-Video In jack.

1 Connect S-Video Out to S-Video In on your TV.

2 Press the TV/VIDEO button on the remote control of TV to set the TV to "S-VIDEO".

oN

Method 3

Use this method if your TV have Pr,Pb and Y jacks.

If you television is equipped with Component Video inputs,connect a component video cable from the Pr,Pb and Y jacks on the back panel of the system to the corresponding jacks on your television.

oN

Note

• Composite Video: A single video signal that is a composite of the black-and-white information (Y) and the color information (C).
• S-Video: A video transmission standard that provides a sharper, brighter picture than ordinary composite video by separating brightness and color signals.
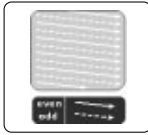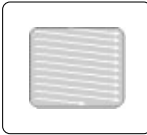
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P.SCAN (Progressive Scan) Function

Unlike regular Interlace Scan, in which two fields of picture information alternate to create the entire picture (odd scan lines, then even scan lines), Progressive Scan uses one field of information (all lines displayed in one pass) to create a clear and detailed picture without visible scan lines.

Press and hold P.SCAN button on the remote controller for over 5 seconds in STOP mode.
• Pressing and holding the button for over 5 seconds will select "**Progressive Scan**" and "**Interlace Scan**" repetitively.

What is Progressive (or Non-Interlaced) Scanning?

Interlaced Scan (1 FRAME = 2 FIELDS)	Progressive Scan (FULL FRAME)
even odd	
In interlaced-scan video, a frame consists of two interlaced fields (odd and even), where each field contains every other horizontal line in the frame. The odd field of alternating lines is displayed first, and then the even field is displayed to fill in the alternating gaps left by the odd field to form a single frame. One frame, displayed every 1/30th of a second, contains two interlaced fields, thus a total of 60 fields are displayed every 1/60th of a second. The interlaced scanning method is intended for capturing a still object.	The progressive scanning method scans one full frame of video consecutively down the screen, line by line. An entire image is drawn at one time, as opposed to the interlaced scanning process by which a video image is drawn in a series of passes. The progressive scanning method is desirable for dealing with moving objects.

Note • This function works only on TVs equipped with component video inputs (Y, Pr, Pb) that support Progressive Video. (It does not work on TVs with conventional component inputs, i.e., non-progressive scan TVs.)
• Depending on the brand and model of your TV, this function may not work.

Selecting the Video Format

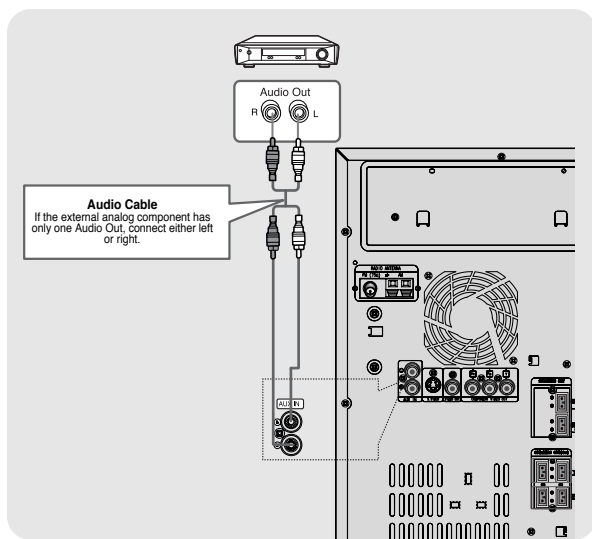Turn off the main unit and then press **NTSC/PAL** on the Remote Control or **REC/PAUSE** on the Main Unit.
• By default, the video format is set to "PAL".
• Each time the button is pressed, the video format switches between "NTSC" and "PAL".
• Each country has a different video format standard.
• For normal playback, the video format of the disc must be the same as the video format of your TV.
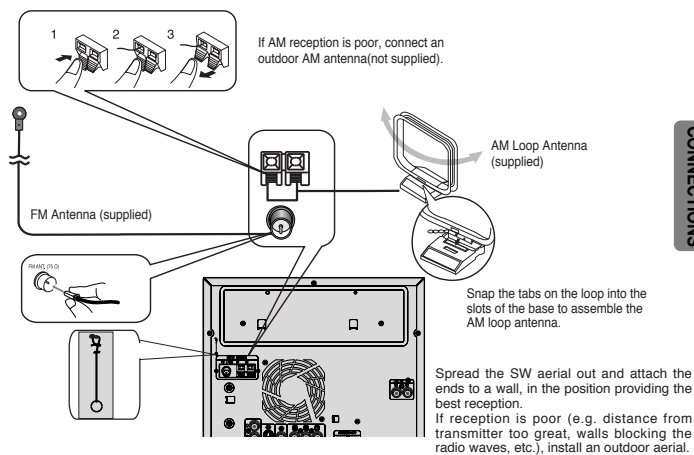
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Connecting External Components

Connecting an External Analog Component

Example: Analog signal components such as a VCR, Camcorder, and TV.

Audio Out
R L

Audio Cable
If the external analog component has only one Audio Out, connect either left or right.

AUX IN

1 Connect Audio In on the DVD player to Audio Out on the external analog component.
• Be sure to match connector colors.

2 Press **AUX** to select AUX.
• '**AUX**' appears in the display.

Connecting the FM, AM(MW) and SW(option) Antennas

1   2   3

If AM reception is poor, connect an outdoor AM antenna(not supplied).

AM Loop Antenna (supplied)

FM Antenna (supplied)

FM ANT. (75 Ω)

Snap the tabs on the loop into the slots of the base to assemble the AM loop antenna.

Spread the SW aerial out and attach the ends to a wall, in the position providing the best reception.
If reception is poor (e.g. distance from transmitter too great, walls blocking the radio waves, etc.), install an outdoor aerial.
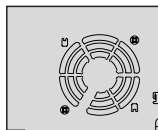
FM antenna connection

1. **Connect the FM antenna supplied to the FM 75Ω COAXIAL terminal as a temporary measure.**
2. **Slowly move the antenna wire around until you find a location where reception is good, then fasten it to a wall or other rigid surface.**

• If reception is poor, connect an outdoor antenna. Before attaching a 75Ω coaxial cable (with a standard type connector), disconnect the supplied FM antenna.

AM (MW) antenna connection

1. **Connect the AM loop antenna supplied to the AM and ⏚ terminals.**

2. **If reception is poor, connect an outdoor single vinyl-covered wire to the AM terminal. (Keep the AM loop antenna connected).**

Cooling Fan

The cooling fan dissipates the heat generated inside the unit so that the unit can be operated normally. The cooling fan is activated automatically to supply cool air to the unit.

Please observe the following cautions for your safety.

• Make sure the unit is well-ventilated. If the unit has poor ventilation, the temperature inside the unit could rise and may damage it.
• Do not obstruct the cooling fan or ventilation holes. (If the cooling fan or ventilation holes are covered with a newspaper or cloth, heat may build up inside the unit and fire may result.)

Setting the Clock

For each step, you have a few seconds to set the required options.
If you exceed this time, you must start again.

1 Switch the system on by pressing **POWER** button.

2 Press **TIMER/CLOCK** twice.
- **CLOCK** is displayed.

3 Press **ENTER**. The hour flashes.
- Increase the hours : ▶
- Decrease the hours : ◀

4 When the correct hour is displayed, press **ENTER**. The minutes flash.
- Increase the minutes : ▶
- Decrease the minutes : ◀

5 When the correct time is displayed, press **ENTER**.
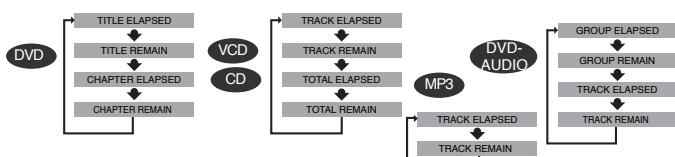- "**TIMER**" appears in the display.
- The current time is now set.

Note
- You can display the time, even when you are using another function, by pressing **TIMER/CLOCK** once.

Note
- You can also use Multi-Jog or ◀◀ ▶▶ button on the panel front instead of ◀ , ▶ buttons in step 3,4.

Checking the Remaining Time

Press the REMAIN button.
- For checking the total and remaining time of a title or chapter being played.

Each time the REMAIN button is pressed

DVD
TITLE ELAPSED → TITLE REMAIN → CHAPTER ELAPSED → CHAPTER REMAIN

VCD
CD
TRACK ELAPSED → TRACK REMAIN → TOTAL ELAPSED → TOTAL REMAIN

MP3
TRACK ELAPSED → TRACK REMAIN

DVD-AUDIO
GROUP ELAPSED → GROUP REMAIN → TRACK ELAPSED → TRACK REMAIN

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Disc Playback

Selecting a CD in the Disc changer

The **CD** function is automatically selected when Disc Skip is pushed.
To select a specific disc, press the corresponding **DISC (1, 2, 3)** button on the front panel or **DISC SKIP** on the remote control, until the required disc indicator flashes.
Result: All the discs will be played in turn, starting with the one selected.

- If you use the **DISC (1, 2, 3)** function when listening to the radio or to a tape, the system switches automatically to the CD mode.
- If the disc selected is not loaded, the next disc is played automatically.

DVD **DVD-AUDIO** **VCD** **CD**
- Playback starts automatically.

MP3 **JPEG** **DivX**
- Playback starts automatically.
- If the TV is on, a list of MP3s on the CD will appear on the TV screen.

Note
- Depending on the content of the disc, the initial screen may appear different.
- Depending on the recording mode, some MP3-CDs cannot be played.
- Table of contents of a MP3-CD varies depending on the MP3 track format recorded on the disc.

OPERATION

To temporarily pause playback, press **PLAY/PAUSE** during playback.
- To resume playback, press **PLAY/PAUSE** button again.

To stop playback, press **STOP** during playback.
- If pressed once, "**PRESS PLAY**" is displayed and the stop position will be stored in memory. If PLAY/PAUSE (▶/II) button or **ENTER** button is pressed, playback resumes from the stop position. (This function works only with DVDs.)
- If pressed twice, "STOP" is displayed, and if **PLAY/PAUSE** (▶/II) button is pressed, playback starts from the beginning.
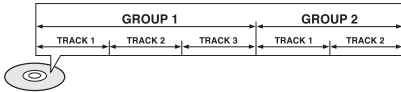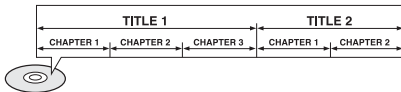
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Groups and tracks (DVD-AUDIO)

- DVD-audios are divided into several large sections called "groups" and smaller sections called "tracks". Numbers are allotted to these sections.
  These numbers are called "group numbers" and "track numbers".

| GROUP 1			GROUP 2	
TRACK 1	TRACK 2	TRACK 3	TRACK 1	TRACK 2

Titles and chapters (DVD-VIDEO)

- DVD-videos are divided into several large sections called "titles" and smaller sections called "chapters". Numbers are allotted to these sections.
  These numbers are called "title numbers" and "chapter numbers".

TITLE 1			TITLE 2	
CHAPTER 1	CHAPTER 2	CHAPTER 3	CHAPTER 1	CHAPTER 2

Tracks (Video and music CDs)

- Video and music CDs are divided into sections called "tracks".
  Numbers are allotted to these sections. These numbers are called "track numbers".

TRACK 1	TRACK 2	TRACK 3	TRACK 4	TRACK 5
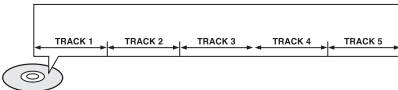
Note
- **In this manual, the instructions marked with "DVD (DVD)" are applicable to DVD-VIDEO, DVD-AUDIO, and DVD-R/RW discs.
  Where a particular DVD type is mentioned, it is indicated separately.**
- Depending on the content of the disc, the initial screen may appear different.

Bonus Group / Navigating Pages

Bonus Group DVD-AUDIO

Some DVD-Audio discs have an extra 'bonus' group that requires a 4-digit key number to access. See the disc packaging for details and the-key number.

When you play a DVD-Audio disc that has a bonus group, the key number input screen appears automatically.

KEY NUMBER : _ _ _ _

Note
- If you eject the disc, switch the power off, or unplug the player, you will need to re-enter the key number.

Navigating Pages DVD-AUDIO

During playback, press the ⌃⌄ button on the remote control.

- You can select the desired image from a DVD-Audio disc containing still images.
- With some discs, you may not be able to select images depending on how the disc was manufactured.

OPERATION

DivX Playback

Skip Forward/Back

During playback, press the ⏮ ⏭ button.

- Go to the next file whenever you press ⏭ button, if there are over 2 files in the disk.
- Go to the previous file whenever you press ⏮ button, if there are over 2 files in the disk.

Fast playback

Press and hold ⏮ ⏭ button.

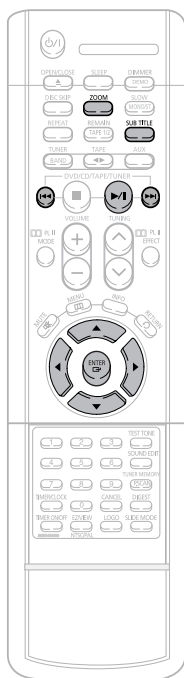- Each time the button is held down during playback, the playback speed changes as follows:

⏮	◀◀ 2 X	⏭	▶▶ 2 X
	◀◀ 4 X		▶▶ 4 X
	◀◀ 8 X		▶▶ 8 X
	◀◀ 32 X		▶▶ 32 X
	▶ PLAY		▶ PLAY
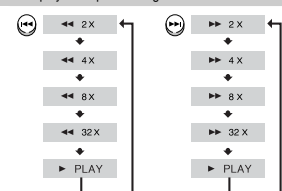
Zoom Function

1 Press **ZOOM** button.

- Each time you press the button, your selection will toggle between "**ZOOM X2**" and "**ZOOM OFF**".

2 Press Cursor ▲, ▼, ◀, ▶ buttons to move to the area you want to enlarge.

Note • DivX files can be played in Zoom X2 mode only.

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5 Minute Skip function

During playback, press the ◀, ▶ button.

- Go to the screen about 5 minutes after whenever you press ▶ button.
- Go to the screen about 5 minutes earlier whenever you press ◀ button.

Subtitle Display

Press the **SUBTITLE** button.

- Each time you press the button, your selection will toggle between "**SUBTITLE ON**" and "**SUBTITLE OFF**".
- If the disc has only one subtitle file, it will be played automatically.
- Up to 8 subtitle languages are supported.

OPERATION

DivX Feature Table

DivX Supported
Avi files are used to contain the audio and video data; these must be stored on CD in the ISO 9660 format.

		SPEC
VIDEO Compatibility	DivX3.11	Up to the latest VERSION
	WMV	WMV V1/V2/V3/V7
AUDIO Compatibility	MP3	CBR : 80kbps~384kbps
	AC3	CBR : 128kbps~384kbps
	WMA	CBR : 56kbps~128kbps

MPEGs containing DivX can be divided into Video and Audio.
- **Video compatibility** : All versions of DivX later than 3.11 (including the latest 5.1) are supported. In addition, XviD is supported. For WMV, V1, V2, V3, and V7 formats are possible. The initial resolution is 720X480 and may support up to 720X576 .
- **Audio compatibility** : MP3s encoded at bitrates from 80kbps to 384kbps, AC3s from 128kbps to 384kbps, and WMAs from 56kbps to 128kbps are supported.
- **In addition, for subtitles, this unit will support Text format (SMI).**

Note • When playing the DivX disk, you can play the file with extension of AVI only.
- Among the available DivX audio formats, DTS Audio is not supported.
- WMV V8 is not supported for WMV files.
- When burning a subtitle file to a CD-ROM with your PC, be sure to burn it as an SMI file.
- Divx Disc does not playing when its sampling frequency is lower than 32KHz.
- Some of the discs recorded in DivX or XviD depending on the way of recording could be played back not correctly or couldn't be played back at all.
- MP3 file support: MPEG1 LAYER3 (BITRATE : 128KBPS~320KBPS , SAMPLING FREQ.: 32K/44.1K/48KHz) .

Displaying Disc Information

You can view playback information on the disc on the TV screen.

Press **INFO** button on the remote control or Press **DISPLAY** button on the main set .

• Each time the button is pressed, the display changes as follows:

DVD

DVD 01/01 001/040 0:00:37 1/1

⬇

DVD EN 1/3 OFF/ 02 OFF

⬇

Display disappears

VCD **CD**

VCD 02/02 LR OFF 0:02:30

⬇

Display disappears

MP3 **JPEG** **DivX**

MP3 0001/0042 0:00:09 OFF

DVD RECEIVER ◆ SMART NAVI

ROOT Something like you
Back for good
Love of my life
More than words

⬇

Display disappears
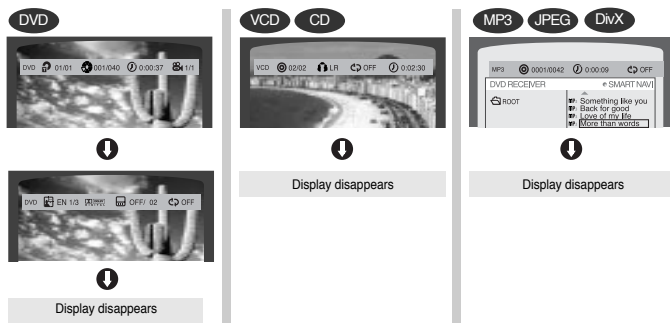
Note

• Depending on the disc, the disc information display may appear different.
• Depending on the disc, you can also select DOLBY DIGITAL, or PRO LOGIC.

• **What is a Title?**
  A movie contained in a DVD disc.
• **What is a Chapter?**
  Each title on a DVD disc is divided into several smaller sections called "chapters".
• **appears on the TV screen!**
  If this symbol appears on the TV screen while buttons are being operated, that operation is not possible with the disc currently being played.
• **What is a Track (File)?**
  A section of video or a music file recorded on a VCD, CD, or MP3-CD.

Screen Display

DVD DVD display	MP3 MP3 CD display	TRACK (FILE) display	AUDIO LANGUAGE display	DOLBY DIGITAL display
VCD VCD display	TITLE display	TRACK (FILE) display	SUBTITLE display	ANGLE display
CD CD display		REPEAT PLAYBACK display		
DVD AUDIO DVD-AUDIO display	CHAPTER display	GROUP display	LR STEREO (L/R) display	DivX DivX display

21

Fast/Slow Playback

Fast Playback **DVD** **VCD** **CD** **MP3**

Press and hold ◄◄ ►►.

• Each time the button is held down during playback, the playback speed changes as follows:

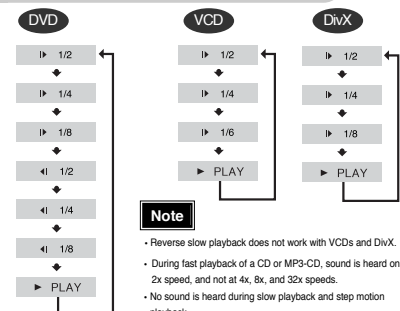| ◄◄	►►
◄◄ 2 X	►► 2 X
◄◄ 4 X	►► 4 X
◄◄ 8 X	►► 8 X
◄◄ 32 X	►► 32 X
► PLAY	► PLAY
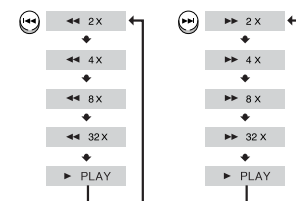
Slow Playback

Press **SLOW** button.

• Each time the button is pressed during playback, the playback speed changes as follows:

DVD	VCD	DivX
1/2	1/2	1/2
1/4	1/4	1/4
1/8	1/6	1/8
1/2	► PLAY	► PLAY
1/4		
1/8		
► PLAY		

Note

• Reverse slow playback does not work with VCDs and DivX.
• During fast playback of a CD or MP3-CD, sound is heard only at 2x speed, and not at 4x, 8x, and 32x speeds.
• No sound is heard during slow playback and step motion playback.
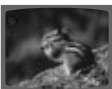
OPERATION

22

Skipping Scenes/Songs

DVD VCD MP3

Briefly press ⏮ ⏭.
- Each time the button is pressed briefly during playback, the previous or next chapter, track, or directory (file) will be played.
- But, you cannot skip chapters consecutively.

DVD

TITLE 01/05 CHAPTER 002/040

TITLE 01/05 CHAPTER 004/040

VCD

- When watching a VCD with a track longer than 15 minutes, each time ⏮ ⏭ is pressed, playback will skip back or forward 5 minutes.

MP3

NEXT

PREVIOUS

Angle Function

This function allows you to view the same scene in different angles.
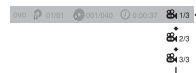
DVD

1 Press **INFO** button.

DVD 01/01 001/040 0:00:37 1/3

2 Press Cursor ▶ button to move to ANGLE display.

DVD 01/01 001/040 0:00:37 1/3

3 Press Cursor ▲, ▼ buttons or numeric buttons to select the desired angle.

- Each time the button is pressed, the angle changes as follows:

DVD 01/01 001/040 0:00:37 1/3

1/3
2/3
3/3

Note • The Angle function works only with discs on which multiple angles have been recorded.
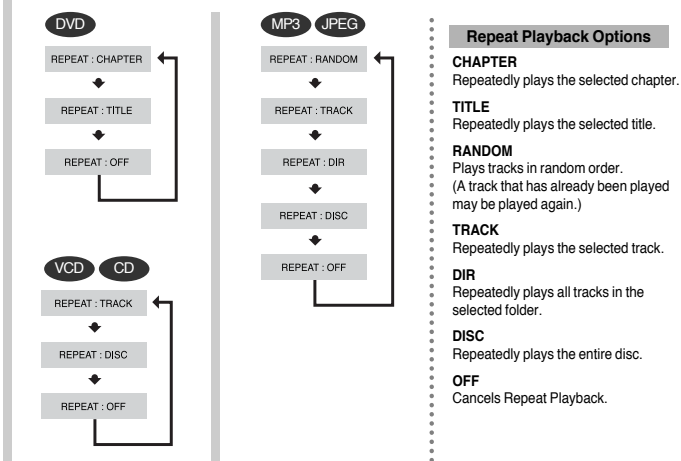
OPERATION

23

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Repeat Playback

Repeat playback allows you to repeatedly play a chapter, title, track (song), or directory (MP3 file).

| DVD | VCD | CD | MP3 | JPEG |

Press REPEAT button.

• Each time the button is pressed during playback, the repeat playback mode changes as follows:

DVD
REPEAT : CHAPTER
↓
REPEAT : TITLE
↓
REPEAT : OFF

MP3 **JPEG**
REPEAT : RANDOM
↓
REPEAT : TRACK
↓
REPEAT : DIR
↓
REPEAT : DISC
↓
REPEAT : OFF

VCD **CD**
REPEAT : TRACK
↓
REPEAT : DISC
↓
REPEAT : OFF

Repeat Playback Options

CHAPTER
Repeatedly plays the selected chapter.

TITLE
Repeatedly plays the selected title.

RANDOM
Plays tracks in random order.
(A track that has already been played may be played again.)

TRACK
Repeatedly plays the selected track.

DIR
Repeatedly plays all tracks in the selected folder.

DISC
Repeatedly plays the entire disc.

OFF
Cancels Repeat Playback.

Note

• Repeat playback operation is not possible with version 2.0 VCD discs if PBC is turned on.
  To use Repeat Playback on a VCD with PBC, you should set the PBC to OFF in the disc menu. (See page 33.)

| DVD | VCD | CD |

To Select a Repeat Playback Mode in the Disc Information Screen

1 Press **INFO** button twice .

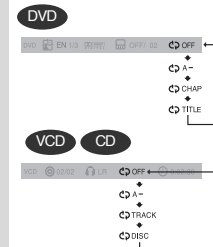•For a VCD or CD,Press INFO button once.

DVD EN 1/3 OFF/ 02 OFF

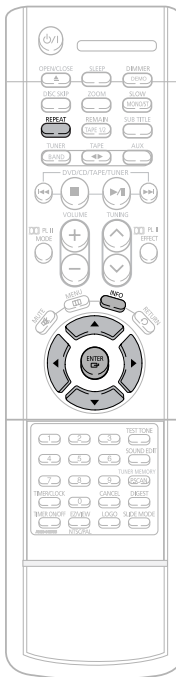**2** Press Cursor ▶ button to move to REPEAT PLAYBACK display.

DVD EN 1/3 OFF/ 02 OFF

3 Press Cursor ▼ button to select the desired Repeat Playback mode.

DVD
DVD EN 1/3 OFF/ 02 OFF
OFF
A –
CHAP
TITLE

VCD **CD**
VCD 00:00/02 L R OFF
OFF
A –
TRACK
DISC

4 Press **ENTER** button.

Note

• For MP3 and JPEG discs, you cannot select Repeat Play from the information display screen.
• For VCD Version 2.0 discs, you can select Repeat Play in PBC off mode.

OPERATION

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26

A↔B Repeat Playback

`DVD` `VCD` `CD`

1 Press **INFO** button twice.

• For a VCD or CD, press **INFO** button once.

DVD EN 1/3 OFF/ 02 OFF

2 Press Cursor button to move to REPEAT PLAYBACK ( ) display.

DVD EN 1/3 OFF/ 02 OFF

3 Press Cursor ▲, ▼ buttons to select 'A-' and then press **ENTER** button at the beginning of the desired segment.

• When **ENTER** button is pressed, the selected position will be stored in memory.

DVD EN 1/3 OFF/ 02 A -

DVD EN 1/3 OFF/ 02 A -?
REPEAT : A–

4 Press **ENTER** button at the end of the desired segment.
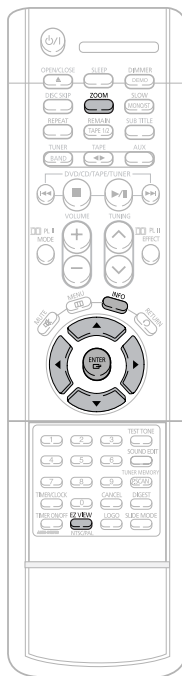
• The specified segment will be played repeatedly.

DVD EN 1/3 OFF/ 02 A - B
REPEAT : A–B

To return to normal playback, press Cursor ▲, buttons to select OFF.

Note

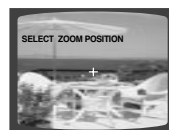• The A-B Repeat function will not work on an MP3 or JPEG disc.

Zoom Function

This function allows you to enlarge a particular area of the displayed image.

Zoom (Screen Enlarge) Function   `DVD` `VCD`
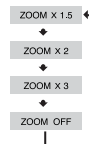
1 Press **ZOOM** button.

SELECT ZOOM POSITION

2 Press Cursor ▲, ▼, ◀, ▶ buttons to move to the area you want to enlarge.

3 Press **ENTER** button.

• Each time the button is pressed, the zoom level changes as follows:

ZOOM X 1.5
◆
ZOOM X 2
◆
ZOOM X 3
◆
ZOOM OFF

OPERATION

Aspect Ratio   `DVD`

Press **EZ VIEW** button.

• Each time the button is pressed, the zoom function will switch between On and Off.
• When a movie is played in Wide screen format, black bars at the top and bottom of the TV screen can be removed by pressing the **EZ VIEW** button.

EZ VIEW   EZ VIEW OFF

Note

• This function will not work if the DVD is recorded with multi-camera angle format.
• Black bars may not disappear because some DVD discs have a built-in horizontal to vertical ratio.

Selecting Audio Subtitle Language

▶▶ Audio Language Selection Function `DVD`

1 Press **INFO** button twice.

`DVD` EN 1/3 OFF/ 02 OFF

2 Press Cursor ▲, ▼ buttons or numeric buttons to select the desired audio language.

- Depending on the number of languages on a DVD disc, a different audio language (ENGLISH, SPAIN,JAPANESE, etc.) is selected each time the button is pressed.

`DVD` EN 1/3 OFF/ 02 OFF
↓
SP 2/3
↓
FR 3/3

▶▶ Subtitle Language Selection Function `DVD`

1 Press **INFO** button twice.

`DVD` EN 1/3 OFF/ 02 OFF

2 Press Cursor ▶ button to move to SUBTITLE display.

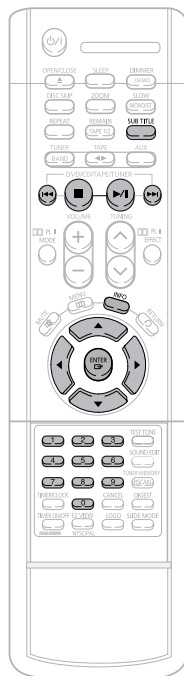`DVD` EN 1/3 OFF/ 02 OFF

3 Press Cursor ▼ button or numeric buttons to select the desired subtitle.

`DVD` EN 1/3 EN 01/ 03 OFF
↓
SP 02/ 03
↓
FR 03/ 03
↓
OFF / 03

Note

- You can use the SUBTITLE button on the remote control to select a subtitle language.
- Depending on the disc, the Subtitle and Audio Language functions may not work.

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Moving Directly to a Scene/Song

`DVD` `VCD` `CD`

1 Press **INFO** button.

`DVD` 01/05 001/040 0:00:37 1/1

Moving to a Title/Track

2 Press Cursor ▲, ▼ buttons or numeric buttons to select the desired title/track and then press **ENTER** button.

`DVD` 03/05 001/002 0:00:01 1/1

Moving to a Chapter

3 Press Cursor ◀, ▶ buttons to move to Chapter display.

`DVD` 01/05 001/040 0:00:01 1/1

Moving to a Chapter

4 Press Cursor ▲, ▼ buttons or numeric buttons to select the desired chapter and then press **ENTER** button.

`DVD` 01/05 025/040 0:00:01 1/1

Moving to a Specific Time

5 Press Cursor ◀, ▶ buttons to move to time display.

`DVD` 01/05 025/040 1:17:30 1/1

Moving to a Specific Time

6 Press the numeric buttons to select the desired time and then press **ENTER** button.

`DVD` 01/05 028/040 1:30:00 1/1

`MP3` `JPEG`

Press the **numeric** buttons.

- The selected file will be played.
- An MP3 or JPEG disc cannot be moved from the disc information screen.
- When playing an MP3 or JPEG disc, you cannot use ▲ ,▼ to move a folder. To move a folder, press ■ (Stop) and then press ▲ ,▼ .

```
SELECT  03
DVD RECEIVER          ◆ SMART NAVI
ROOT              ▶ Something like you
                    Back for good
                    Love of my life
                    More than words
                    I need you
                    My love
                    Uptown girl
 Move    Select   Stop
```

Note

- You can press ◄◄ ►► on the remote control to move directly to the desired title, chapter, or track.
- Depending on the disc, you may not be able to move to the selected title or time.

OPERATION

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JPEG File Playback `JPEG`

Images captured with a digital camera or camcorder, or JPEG files on a PC can be stored on a CD and then played back with this DVD player.
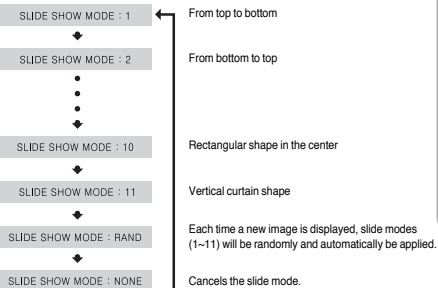
Slide Mode

1 Place the JPEG disc on the disc tray.

2 Press the **OPEN/CLOSE** button.

3 Press **SLIDE MODE** button.

- Playback starts automatically.
- Each time the button is pressed, the image makes the transition as follows:

SLIDE SHOW MODE : 1	From top to bottom
SLIDE SHOW MODE : 2	From bottom to top
SLIDE SHOW MODE : 10	Rectangular shape in the center
SLIDE SHOW MODE : 11	Vertical curtain shape
SLIDE SHOW MODE : RAND	Each time a new image is displayed, slide modes (1~11) will be randomly and automatically be applied.
SLIDE SHOW MODE : NONE	Cancels the slide mode.

Press ◄◄ ►►I to skip to the next slide.

- Each time the button is pressed, the slide moves backward or forward.
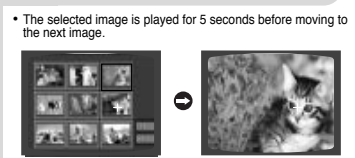
31
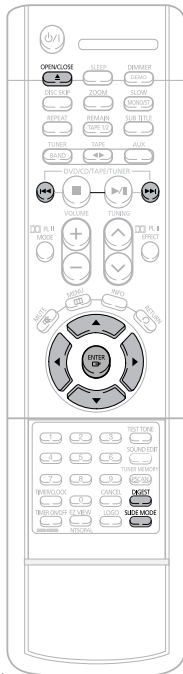
Digest Function

You can view 9 JPEG images on the TV screen.

1 Press **DIGEST** button during playback.

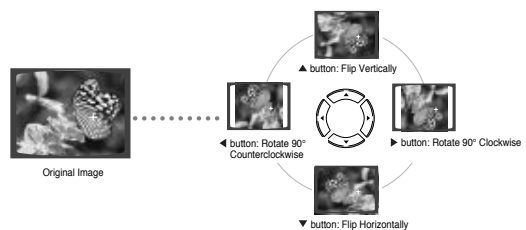- JPEG files will be shown in 9 windows.

2 Press Cursor ▲, ▼, ◄, ► buttons to select the desired image and then press **ENTER** button.

- The selected image is played for 5 seconds before moving to the next image.

To view the previous or next image with 9 windows, press ◄◄ ►►I .

Rotate/Flip Function

Press Cursor ▲, ▼, ◄, ► buttons during playback.

▲ button: Flip Vertically
◄ button: Rotate 90° Counterclockwise
► button: Rotate 90° Clockwise
▼ button: Flip Horizontally

Original Image

OPERATION

32

Using Disc Menu

You can use the menus for the audio language, subtitle language, profile, etc.
DVD menu contents differ from disc to disc.

DVD

1 In stop mode,Press **MENU** button.

- When playing a VCD (version 2.0), this toggles between PBC ON and OFF.

2 Press Cursor ▲, ▼ buttons to move to 'DISC MENU' and then press **ENTER** button.

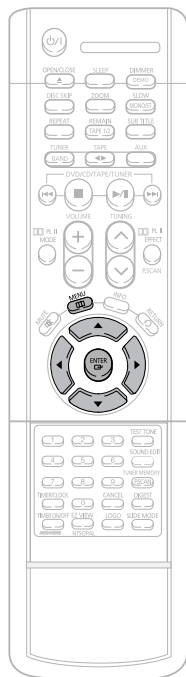- When you select the disc menu that is not supported by the disc, the "**This menu is not supported**" message appears on the screen.

3 Press Cursor ▲, ▼, ◄, ►buttons to select the desired item.

4 Press **ENTER** button.

Note

PBC (Playback Control) Function
When playing a VCD (version 2.0), you can select and view various scenes according to the menu screen.

PBC ON: This VCD disc is version 2.0. The disc is played back according to the menu screen. Some functions may be disabled. When some functions are disabled, select "PBC OFF" to enable them.

PBC OFF: This VCD disc is version 1.1. The disc is played back in the same way as with a music CD.

33
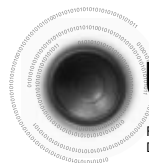
Using the Title Menu

For DVDs containing multiple titles, you can view the title of each movie.
Depending on the disc, this function may either not work at all or may work differently.

DVD

1 In stop mode Press **MENU** button.

2 Press Cursor ▲, ▼ button to move to 'Title Menu'.

3 Press **ENTER** button.

- The title menu appears.

Press **MENU** button to exit the setup screen.

OPERATION

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ode List

the initial settings "Disc Audio", "Disc Subtitle"

Code	Language	Code	Language
1334	Latvian, Lettish	1506	Slovenian
1345	Malagasy	1507	Samoan
1347	Maori	1508	Shona
1349	Macedonian	1509	Somali
1350	Malayalam	1511	Albanian
1352	Mongolian	1512	Serbian
1353	Moldavian	1513	Siswati
1356	Marathi	1514	Sesotho
1357	Malay	1515	Sundanese
1358	Maltese	1516	Swedish
1363	Burmese	1517	Swahili
1365	Nauru	1521	Tamil
1369	Nepali	1525	Tegulu
1376	Dutch	1527	Tajik
1379	Norwegian	1528	Thai
1393	Occitan	1529	Tigrinya
1403	(Afan) Oromo	1531	Turkmen
1408	Oriya	1532	Tagalog
1417	Punjabi	1534	Setswana
1428	Polish	1535	Tonga
1435	Pashto, Pushto	1538	Turkish
1436	Portuguese	1539	Tsonga
1463	Quechua	1540	Tatar
1481	Rhaeto-Romance	1543	Twi
1482	Kirundi	1557	Ukrainian
1483	Romanian	1564	Urdu
1489	Russian	1572	Uzbek
1491	Kinyarwanda	1581	Vietnamese
1495	Sanskrit	1587	Volapuk
1498	Sindhi	1613	Wolof
1501	Sangro	1632	Xhosa
1502	Serbo-Croatian	1665	Yoruba
1503	Singhalese	1684	Chinese
1505	Slovak	1697	Zulu

SETUP

36

reen Size)

tional TVs is 4:3, while that of wide screen and high
ratio. When playing DVDs recorded in different
your TV or monitor.

elect either "4:3LB" or "4:3PS" option according to
Select "16:9" if you have a wide screen TV.

picture in the full-screen
n TV.
n aspect.

picture in the letter box
V.
p and bottom of the screen.

picture in the pan & scan
V.
n of the screen only (with the
f).

t in wide screen.
ge formats, they will look different depending on
ect ratio setting.

38

assword

rental (rating level) setting.

Cursor ▼
to move to
and then
ENTER button.

3 Press Cursor ▼ button to move to 'PASSWORD' and then press **ENTER** button.

the password
en press
R button.

assword, a new
confirm new password.
complete.

previous level.

error numeric when you inputting password.

40

screen.

3 Press Cursor ▼
button to move to
'LOGO' and then
press **ENTER** button.

	SETUP
Disc Menu	• LANGUAGE
	• TV DISPLAY : WIDE ▸
Title Menu	• PARENTAL : OFF ▸
	• PASSWORD : CHANGE ▸
Audio	• LOGO : ORIGINAL
	• DVD TYPE : DVD AUDIO ▸
Setup	
MOVE SELECT RETURN EXIT

SETUP

vious level.

en.

42

tup

f it is connected with digital TV.
udio to optimal status to fit the video.

2 Press Cursor ▲ , ▼ buttons to move to 'Audio' and then press **ENTER** button.

● 'Audio' menu appears.

		AUDIO
Disc Menu	• SPEAKER SETUP	▶
	• DELAY TIME	▶
Title Menu	• TEST TONE	▶
	• SOUND EDIT	▶
Audio	• DRC	: 2
Setup	AV-SYNC	: 0mSec

◀ MOVE ◉ SELECT ◉ RETURN ◉ EXIT

4 Press Cursor ▲ , ▼ buttons to select the Delay Time of AV-SYNC and then press the **ENTER** button.

SETUP

● You can set the audio delay time between 0 ms and 300 ms. Set it to the optimal status.

	AUDIO
Disc Menu	• AV-SYNC
Title Menu	
Audio	
Setup	

◀ MOVE ◉ SELECT ◉ RETURN ◉ EXIT

o the previous level.

tup screen.

44

Test Tone

connections and to adjust the speaker levels.

Cursor ▼
o move to
and then
NTER button.

- The test tone will be sent to L → C → R → RS → LS → SW in that order. If the ENTER button is pressed again at this time, the test tone will stop.
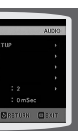
revious level.

een.

SETUP

| L: Front Speaker (L) | C: Center Speaker | SW: Subwoofer |
| R: Front Speaker (R) | LS: Rear Speaker (L) | RS: Rear Speaker (R) |

ulti-Channel Pro Logic Mode

Start

L → C → R

LS ← RS

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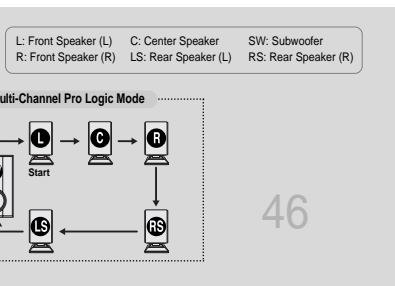
5 Press Cursor ◀ , ▶ to set the Delay time.

• You can set the delay time for C between 00 and 05mSEC and for LS and RS between 00 and 15mSEC.

SETUP

Ideal CENTER SPEAKER placement

L   R

C   SW

Dc   Df

Ds

Ls   Rs

Ideal SPEAKER placement

It is desirable to place all speakers within this circle.

Df: The distance from FRONT SPEAKER
Dc: The distance from CENTER SPEAKER
Ds: The distance from SPEAKER

48
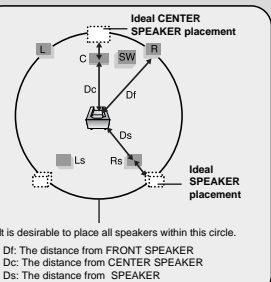
Speaker Balance

Adjusting Center Speaker Level

SOUND
button and
ress Cursor
.

3 Press **SOUND**
EDIT button and
then press Cursor
◄ , ► .

– |

CEN + |

oofer Speaker Level

SOUND
utton and
ress Cursor

SETUP

+ |

–6dB.
quieter as you get closer to -6dB.

50

4 Press Cursor ▲, ▼ to adjust the 'DRC'.

● The Cursor ▲ button is pressed, the greater the effect, and the Cursor ▼ button is pressed, the smaller the effect.

e previous level.

screen.

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gic II Effect

gic MUSIC mode.

2 Press ◨◧ **PL II EFFECT** button and then press Cursor ◄ , ► buttons to select the mode.

● You can select either 0 or 1.

    PANOR 1

4 Press ◨◧ **PL II EFFECT** button and then press Cursor ◄ , ► buttons to select the mode.

● You can select between 0 and 6.

    DIMEN 6

or more channels, multi-channel mode will be
Pro Logic II) button does not work.

e to include the surround speakers for
wall imaging.
r only. The front left and right speakers

P) from the front or rear.

54

...ations

to
.10".

2 on page 41
y or manually
ation.

---

3 Press the **TUNER MEMORY** button.

- "**PROGRAM**" flashes in the display.

PROGRAM
FM 89.10
MHz
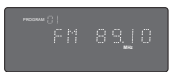
TUNER button.

MORY button before
bears from the display.
bears from the display
d in memory.

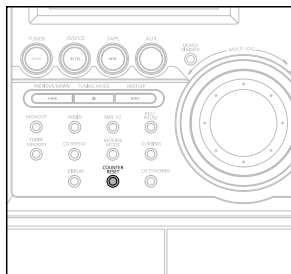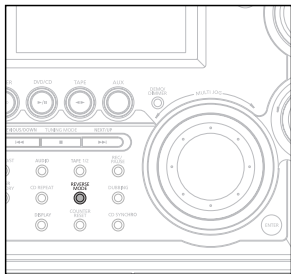**6** To preset another station, repeat steps 2 to 5.

Note

- When listening AM/SW , PL II (Dolby Pro Logic II) button does not work.

---

on the

56

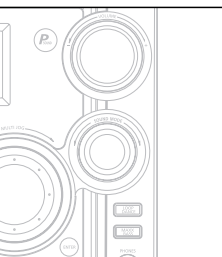## ayback Mode

sette playback modes which
te automatically. .

en stops.

stops.
il you

58

Compact Disc

e in two different ways:

ording with the start of the disc or track of your choice

ank
n Tape 2.

ECT button (⏏)
door, insert a
lose the cassette

with the safety

3 Load a compact
disc.

- Press the **OPEN/CLOSE** button (⏏)
  to open the CD door.
- Insert a CD and press the
  OPEN/CLOSE button (⏏) to close
  the CD door.

SYNCHRO

s the button to
rom the first

SYNCHRO
ayback of CD to
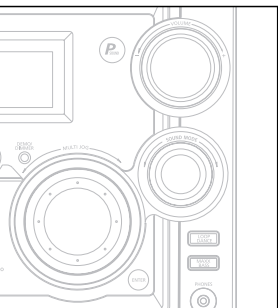rom the first part
layed.

6 To stop recording,
press ■ button.

Note

•You can use **CD/SYNCHRO** button
only in CD Playback Mode.

•In Recoding,DPL II doesn't work.

60

Radio Program

oice.
t has no effect on the recording.

blank
in Deck 2.

3 Select the
TUNER function
by pressing
TUNER/BAND.

EC/PAUSE)

in red and

6 To stop recording,
press ■ button.

MISCELLANEOUS

e Timer

utomatically as shown by the TIMER indication on the display.
you must cancel it.

e timer, press **TIMER ON/OFF**

displayed.

the timer, press **TIMER ON/OFF**

again.

e timer while the power is on or while the player is in standby.

64

nction / Mute Function

Timer Function

the time that the DVD player will shut itself off.

EEP button.

tton is pressed, the selection changes as follows:
MIN → 45 MIN → 30 MIN → 15 MIN → OFF.

sleep timer setting, press **SLEEP** button.

before the DVD player will shut itself off is displayed.
again changes the sleep time from what you have set

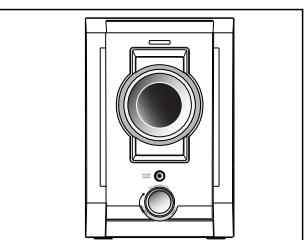sleep timer, press **SLEEP** button until
on the display.

Function

when answering a doorbell or telephone call.

TE button.

in the display.
press the button again.

MISCELLANEOUS

66

ction

**fundamental ,which creates the sensation of
ted series of harmonics designed to simulate
ndamental pitch. These harmonics extend the
2 octaves below the physical speaker cutoff
sed power consumption.MAXX BASS function
cts.**

2 You can select the level of low
tones you desire.

ction

OFER OUT SYSTEM CONTROL Jack.

Turn the **SUB WOOFER
LEVEL** knob to adjust the sub
woofer volume.

68

dling and Storing Discs

uce sound and picture quality or cause breaks in
scratch discs when handling them.

**playback side of the disc. Hold
dges so that fingerprints will not
e.**
er or tape on the disc.

**erprints or dirt on the disc, clean it
ent diluted in water and wipe with a**

gently from the inside to the outside of the disc.

if warm air comes into contact with cold parts
condensation forms inside the player, the player
tly. If this occurs, remove the disc and let the
ours with the power on.

Cassettes ···

ut.
p, remove the safety tab on the upper edge of the
been broken, simply cover the opening with adhesive

put it back in its case.
sunlight, where they will not be exposed to high

nnecessary strain on the tape mechanism.

70
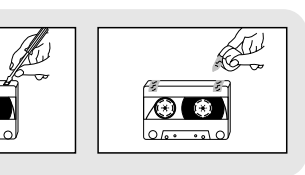
Check/Remedy

and subtitles will not work for DVDs not containing
nding on the disc, they may work differently.

disc that does not contain menus?

6:9 DVDs in 16:9 WIDE mode, 4:3 LETTER BOX
AN SCAN mode, but 4:3 DVDs can be seen in 4:3
to the DVD disc jacket and then select the
ction.

ion has not been selected.

as not been inserted correctly.

ayer has not been closed.

er slack or broken.

s are dirty.

ive capstans are dirty.

n.

connected properly?
input signal is weak, install an external FM
rea with good reception.

ver and hold the **P.Sound** button on the main unit
5 seconds.

function will erase all stored settings.
nless necessary.

is in **"NO DISC"** mode, hold the main unit's **TUNING**
for longer than 5 seconds. "INITIAL" appears on the
ettings will return to the default values.
ER button.
function will erase all stored settings.
nless necessary.

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rminology

scs are scenes which have been simultaneously shot
ngles (the same scene is shot from the front, from the

utton can be used to change the angle of view for

d on DVD discs. A Title is subdivided into many
mbered, and specific parts of the video can be
numbers.

n which high-quality pictures and sound have been
signals. Incorporating a new video compression
gh-density recording technology, a DVD disc
discs bonded together.

Modulation - another name for digital audio.

CD (version 2.0). Selected scenes or information can
splayed on the TV monitor.

D discs are encoded with a region number.
DVD disc does not correspond to the region number
cannot play the disc.

ottom of the screen. A DVD disc can contain up to

d on DVD discs. When a disc contains two or more
mbered as Title 1, Title 2, etc.

d to the tracks which are recorded on video and
cific tracks to be located quickly.

es and sound whose quality is roughly comparable

eo CDs with playback control (version 2.0).

rround sound reproduced from DVDs and LDs
(with ▮▮ DOLBY▮ disc marking). With better sound quality,
ality than traditional Dolby surround technology, you
sound.

MISCELLANEOUS

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